SBG Study: Download Free Study Material WWW.SBGSTUDY.COM

TIC-505	253	Printed Pages: 3
Paper Code & Roll No. to be filled in your Answer Book		
Roll	No.	
Odd Semester Examination-2016		
B.Tech (Semester-V)		
TRANSDUCERS, SENSORS AND DISPLAY DEVICES		
[Time: 3 Hou	rs] [N	Maximum Marks :100

Note: Attempt all questions. All questions carry equal marks.

1. Attempt any four questions:

[5x4=20]

- (a) What is an error, discuss about errors in measurements in brief.
- (b) Brief introduction about Piezoelectric Sensor.
- (c) Write down about dual trace.
- (d) Discuss Guarding techniques in brief.
- (e) Write down about Sweep frequency generator.
- (f) What is Data Loggers, discuss in brief.

TIC-505/140 (1) P.T.O.]

SBG Study: Download Free Study Material WWW.SBGSTUDY.COM

2. [5x4=20]Attempt any four questions: Explain Magnetic disk and tape in brief. (a) Write down about digital plotters. (b) Discuss about accuracy in DVM. (c) (d) What is calibration, discuss in brief. Explain Pulse generator. (e) (f) What is wave analyzer? 3. Attempt any two questions: [10x2=20](a) What is oscilloscope, explain sampling oscilloscope with diagram. Discuss optical sensors and acoustic sensors in (b) detail. What is audio frequency signal, also discuss AF (c) generator with diagram in detail. Attempt any two questions: 4. [10x2=20]Show the comparative study between Digital (a) Voltmeters and Multimeters in detail.

SBG Study: Download Free Study Material WWW.SBGSTUDY.COM

- (b) What is transducer, discuss classification of transducers, in detail.
- (c) Write down about spectrum analyzer and logic analyzer.
- 5. Attempt any two questions:

[10x2=20]

- (a) Explain Flow Sensors and Radiation Sensors in detail.
- (b) Discuss about Strain Gauges with an appropriate example in detail.
- (c) Write down short notes on:
 - (i) CRO
 - (ii) LED

---- X ----